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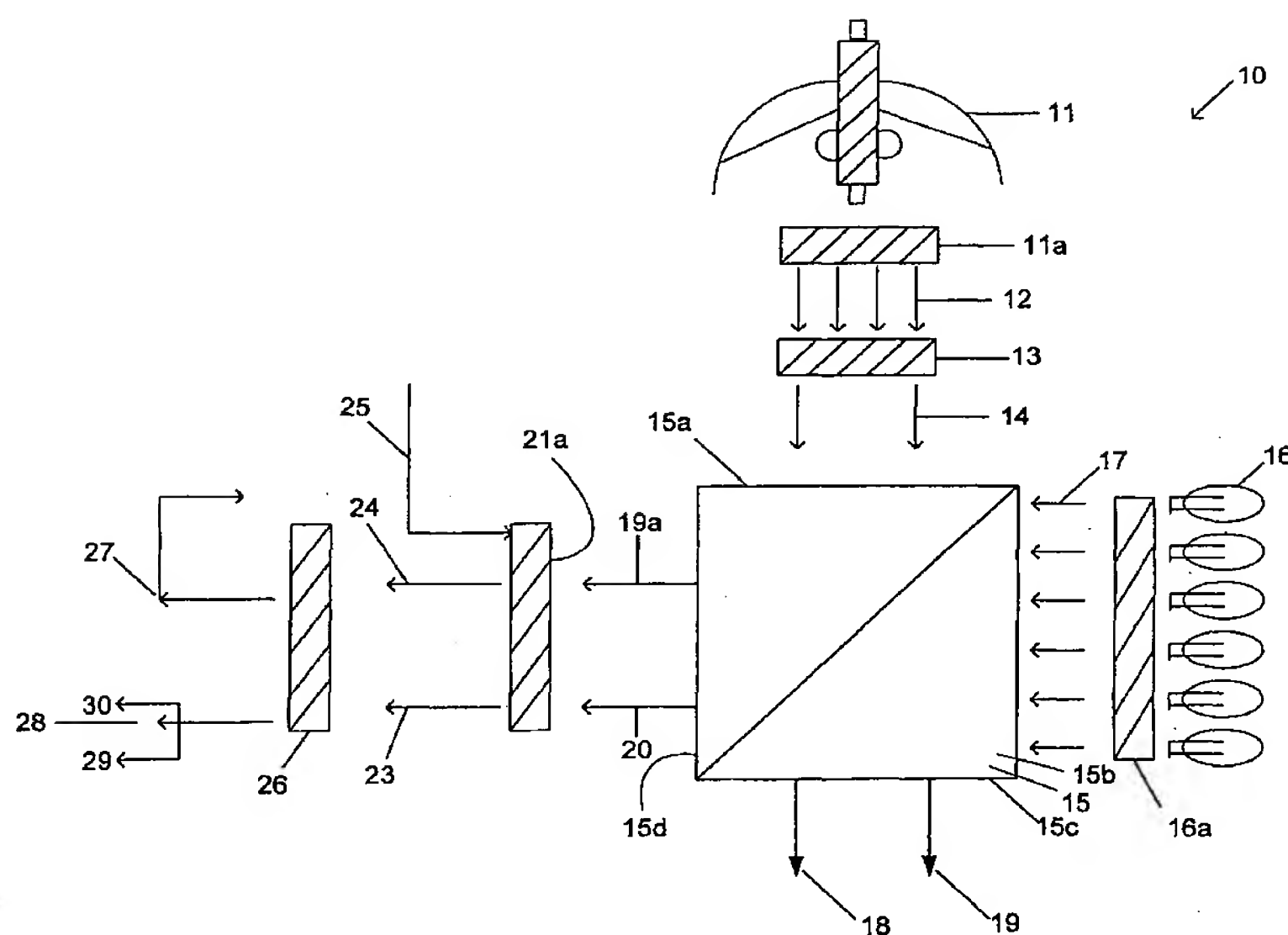
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(54) Title: APPARATUS FOR ADDING RED LIGHT TO A POLARIZED LIGHT SYSTEM



(57) Abstract: An apparatus for adding red light to a polarized light system includes a first light source and a second light source. A polarizing beam splitter combines S-polarized-light from the first light source and P-polarized light from the second light source. A first multi-layer filter means rotates the polarization state of the green light from the first light source to the P-polarization state. A second multi-layer filter means rotates the first light source red light to the P-polarization state and rotates the second light source red light to the S-polarization state. Finally, a reflective cleanup polarizer reflects the P-polarized-light back to the respective first and second light source and passes the S-polarized-light.

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